

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21!

See attached form for additional information.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 50-R-0006  
CUSTOMER NUMBER: 45

FORM APPROVED  
OMB NO. 0579-0036

**ANNUAL REPORT OF RESEARCH FACILITY**  
**( TYPE OR PRINT )**

University Of Delaware  
Office Of Lab Animal Medicine  
020 Wolf Hall  
Newark, DE 19716

Telephone: (302) -831-2400

**3. REPORTING FACILITY** ( List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary )

**FACILITY LOCATIONS ( Sites ) - See Attached Listing**

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY ( Attach additional sheets if necessary or use APHIS Form 7023A )

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. ( An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS ( COLUMNS C + D + E )
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters				1	1
8. Rabbits			20		20
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

## ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A **summary of all such exceptions is attached to this annual report**. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**  
( Chief Executive Officer or Legally Responsible Institutional Official )

**SIGNAT** (b)(6), (b)(7)c **ICIAL** **NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL** (Type or Print)

DATE SIGNED

Ran

OCT 04 2007

Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 50-R-0006

2. Number 1 of animals used in this study.

3. Species (common name) Hamster of animals used in the study.

4. Explain the procedure producing pain and/or distress.

SEE ATTACHED

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

SEE ATTACHED

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency \_\_\_\_\_ CFR \_\_\_\_\_

OFFICE OF  
LABORATORY ANIMAL MEDICINE020 Wolf Hall  
University of Delaware  
Newark, Delaware 19716-1561

(b)(6), (b)(7)c

University of Delaware  
Office of Lab Animal Medicine  
020 Wolf Hall  
Newark, DE 19716  
October 2, 2007

Certificate Number: 50-R-0006  
Customer Number: 45  
FY 10/1/06 – 9/30/07

## Explanation of E.7:

One hamster, under the control of our research facilities, had been subjected to procedures, which may have caused pain or distress, without the use of anesthetics, analgesics or tranquilizing drugs. This hamster was being used in a study to determine the feeding behavior of the mosquito, *Culex pipiens*, a known vector of West Nile virus. The study involved a hamster being exposed to approximately 50 adult mosquitoes during serial, hour long sessions.

The procedure entailed a small patch of fur being shaved from the abdomen and the hamster was placed in a mesh stocking to limit movement. The hamster was then placed belly down in a fine mesh pocket, within the mosquito chamber, thus allowing the mosquitoes access to feed. The hamster was exposed to the mosquitoes for 1 hour at a time and used no more than once every 3 days. This project was run over a 4 month period in 2006. At no time did the hamster show any signs of pain or distress nor did it have any type of skin reaction to the mosquito bites.

Mosquitoes are particular in their feeding behavior and patterns. No anesthetics, analgesics or tranquilizing drugs were given to the hamster as these could alter the body and blood temperature and/or the blood composition of the hamster. These changes could affect the feeding behavior of the mosquitoes.